

4-Acetamide-3-nitrophenyl acetate

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| Inchi: | InChI=1S/C10H10N2O5/c1-6(13)11-9-4-3-8(17-7(2)14)5-10(9)12(15)16/h3-5H,1-2H3,(H, |
| InchiKey: | HSCNPJOXRGUVFK-UHFFFAOYSA-N |
| Formula: | C10H10N2O5 |
| SMILES: | CC(=O)Nc1ccc(OC(C)=O)cc1[N+](=O)[O-] |
| Mol. weight [g/mol]: | 238.20 |
| CAS: | 2243-69-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -111.43 | kJ/mol | Joback Method |
| hf | -350.81 | kJ/mol | Joback Method |
| hfus | 35.77 | kJ/mol | Joback Method |
| hvap | 80.38 | kJ/mol | Joback Method |
| log10ws | -2.64 | | Crippen Method |
| logp | 1.478 | | Crippen Method |
| mcvol | 164.410 | ml/mol | McGowan Method |
| pc | 3291.59 | kPa | Joback Method |
| tb | 797.01 | K | Joback Method |
| tc | 1037.70 | K | Joback Method |
| tf | 572.28 | K | Joback Method |
| vc | 0.634 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 449.62 | J/molxK | 797.01 | Joback Method |
| cpg | 459.54 | J/molxK | 837.13 | Joback Method |
| cpg | 468.52 | J/molxK | 877.24 | Joback Method |
| cpg | 476.56 | J/molxK | 917.36 | Joback Method |
| cpg | 483.70 | J/molxK | 957.47 | Joback Method |
| cpg | 489.94 | J/molxK | 997.59 | Joback Method |
| cpg | 495.30 | J/molxK | 1037.70 | Joback Method |

Sources

| | |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C2243698&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

Legend

| | |
|-----------------|-------------------------------------------------|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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